

18. A mobile telecommunications terminal as claimed in claim 10,
wherein the temrinal is a cordless telephone.

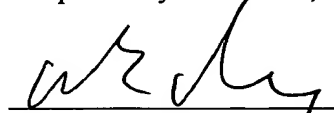
REMARKS

5 The amendment makes editorial changes and corrects typographical errors
in the specification, which includes the Abstract, in order to conform the
specification to the requirements of United States Patent Practice. No new matter is
added thereby. Attached hereto is a marked-up version of the changes made to the
specification by the present amendment. The attached page is captioned "**Version**
10 **With Markings To Show Changes Made**".

In addition, the present amendment cancels original claims 1-9 in favor of
new claims 10-18. Claims 10-18 have been presented solely because the revisions
by red-lining and underlining which would have been necessary in claims 1-9 in
order to present those claims in accordance with preferred United States Patent
15 Practice would have been too extensive, and thus would have been too burdensome.
The present amendment is intended for clarification purposes only and not for
substantial reasons related to patentability pursuant to 35 U.S.C. §§103, 102, 103 or
112. Indeed, the cancellation of claims 1-9 does not constitute an intent on the part
of the Applicant to surrender any of the subject matter of claims 1-9.

20 Early consideration on the merits is respectfully requested.

Respectfully submitted,



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VERSIONS WITH MARKINGS TO SHOW CHANGES MADEIn The Specification:

The Specification of the present application, including the Abstract, has been amended as follows:

SPECIFICATIONTITLE OF THE INVENTIONMOBILE TELECOMMUNICATIONS TERMINALBACKGROUND OF THE INVENTION5 DescriptionMobile telecommunications terminal

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The present invention relates to a mobile telecommunications terminal which can be activated at ~~in each case~~ one of a number of different base stations in order to set up and conduct communication connections with a telecommunications
10 network via this base station. Terminals of this type, in particular cordless telephones, can be used by a user indiscriminately in connection with base stations installed at different locations for telephoning; for example at one or more locations of a company where the user is employed or at his home. Cordless
15 telephones of this type usually have a numbers memory; in which the user can store frequently used call numbers, if appropriate in conjunction with the name of a person to be called and with respect to which he/she can set up a connection by simply selecting the number or the name in a displayed list.

If such a mobile terminal is used in connection with different base stations, there may arise the problem that the numbering plans of these different base
20 stations vary. If, for example, the base stations belong to different local networks, call numbers stored without a local area code can, in each case, only be dialed via the base station located in the relevant local network. Further problems may arise if an exchange identification code has to be preselected for one of the base stations but not for another, if abbreviated dialing numbers are used but ~~are in each case~~
25 only defined locally for one base station, or if extension numbers which are likewise ~~in each case~~ only meaningful for one base station are stored.

assigned to the stored call numbers which can be dialed in connection with a designated base station.

This ensures that, when using the call numbers memory for dialing a subscriber, a user is only offered for selection those names of subscribers for which a call number valid for the designated base station is stored.

This information may be displayed in various ways; ~~for~~ For example, in a numbers memory organized on the basis of columns there may be provided a numbers column for the stored call numbers and a stations column specifying for each call number the base station(s) in connection with which this call number can be dialed. The information also may, however, ~~also~~ be represented by the distribution of the stored call numbers in the numbers memory, to be specific if, in the case of a numbers memory organized on the basis of columns, each of the different base stations to which the terminal can be connected is assigned a column and in each column the call numbers which can be dialed in connection with the assigned base station are stored.

During normal use of the terminal, the designated base station should be the one at which the terminal is activated. This may be achieved in various ways.

One way is to equip such a terminal with an operator control element for the user to designate the base station. This allows the latter, for example, to make the base station of his/her workplace the designated base station when he/she arrives at work in the morning, and when he/she gets home on the other hand to make it the base station of his/her home. This rules out the possibility of ~~him~~ inadvertently dialing at ~~his~~ the workplace call numbers from the numbers directory which are only valid at home, and vice versa.

If a mobile terminal is activated at a base station, that is to say enters a state of readiness in which it is capable of receiving it for certain calls from the base station or of sending requests for establishing a call connection to ~~said~~ the station, there must necessarily first take place a data exchange between the base station and the terminal in which both reveal their identity to the other, in order ~~in this way~~ to check the authorization to communicate with each other. If the terminal in this way

establishes the identity of the base station at which it is activated, it is advantageous if it makes this base station the designated base station. In this case, it is not necessary for the user to designate the base station because this is automatically performed by the terminal when it enters the transmitting/receiving range of a base station or is switched on within this range.

The terminal is, furthermore, advantageously able to be switched over between a dialing operating state, in which only the names which can be dialed in connection with the designated base station are displayed and offered to a user for selection, and an editing operating state, in which all the data, names, call numbers and information on the assignment of a call number to a station stored in the numbers memory are displayed and can be changed by a user.

When a user enters a call number into the numbers memory of the terminal, he/she has the possibility of specifying in connection with which of the different base stations the call number is to be able to be dialed. If he/she does not specify anything in this respect, the information that the number can be dialed in connection with all the base stations is stored with respect to the call number concerned. A user who uses the terminal only in connection with a single base station or in connection with a number of base stations which use the same numbering plans, therefore, does not have to do anything more than in the case of conventional terminals when entering call numbers into the numbers memory.

~~Further features and advantages of the invention emerge from the following description of exemplary embodiments with reference to the figures, in which:~~

Additional features and advantages of the present invention are described in, and will be apparent from, the following Detailed Description of the Invention and the Figures.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 shows the individual functional groups of a terminal according to the present invention;

Figures 2A and 2B show two alternatives of the internal organization of a numbers memory; ~~and.~~

Figures 3A and 3B show possible forms of a display element of the terminal in the dialing operating state.

BRIEF DESCRIPTION OF THE INVENTION

Figure 1 schematically shows the functional groups of a mobile telecommunications terminal which are important for understanding the present invention. These are a processor 1, which receives inputs of a user via an operator control element in the form of a keypad 2, a numbers memory 3, to which the processor 1 has reading and writing access, a display element, for example in the form of an LCD display 4, and a transmitter/ receiver functional group 5 for the exchange of signaling data between the processor 1 and a base station (not represented); for example, for transmitting a call number selected by the user from the processor to the base station, and for transferring user information during the existence of a call connection.

Figure 2A shows a first example of the internal organization of the numbers memory 3. In the case considered here, the terminal can be connected to up to four different base stations, and the numbers memory 3 accordingly comprises includes four numbers columns 8, each of which is respectively assigned to one of the base stations (a, b, c or d). A names column 9 is shared by all the numbers columns 8. One row of the numbers memory 3 contains in the names column 9 a name of a subscriber. The numbers columns 8 respectively contain in the same row call numbers of the subscriber concerned which are valid for the base station assigned to the numbers column. For the further description it is to be assumed as an example that the base station a "a" corresponding to the first numbers column 8 is a base station at the workplace of the user, and the station b "b" corresponding to the second numbers column is a base station at the user's home.

Each stored subscriber respectively has a corresponding row of the numbers memory 3. Stored in the first row are the name "ABC" of a first subscriber and, in the numbers columns 8 corresponding to the base stations a and b, the call numbers valid for the corresponding base stations. "ABC" could be, for example, a superior of the user who can be reached via the company's base station by an abbreviated

those names to which a call number valid for the designated base station is assigned in the numbers memory 3; so that the user also can ~~also~~ only dial these numbers.

Figure 3A shows the form of the display 4 when the terminal a is designated. A first display zone 14 of the display 4 indicates which is the currently designated station; in a second display zone 15, the names of the persons to be called who can be dialed are shown. In this case, the name of one of the persons to be called which can be chosen by pressing a selection key of the operator control panel 2 is identified in a known way by a dark background 16, inverted script or bold representation of the letters. In the case of ~~figure~~ Figure 3A, in which the base station a is designated and displayed in the display zone 14, the processor 1 selects the names "ABC" and "GHI" for display; the subscriber "DEF", likewise stored in the numbers memory 3, is not displayed since his/her call number is not valid for the station a. By analogy, in the case shown in ~~figure~~ Figure 3B where the base station b is designated, only the names "ABC" and "DEF" are displayed; the subscriber "GHI" cannot be selected.

In a more advanced configuration of the terminal, the processor 1 automatically performs the designation of the base station. For this purpose, it is sufficient to evaluate the legitimization record usually made when a terminal is activated at a base station and in which the base station reveals its identity to the terminal. In this way, a fully automatic change between different base stations is possible, and the use of the correct call numbers is ensured at each base station, even without the user having to know in the transmitting/receiving range of which base station the terminal is located.

The input of call numbers and names into the numbers memory 3 takes place in a known way. Following the input, the processor 1 provides the user with the choice via the display 4 of whether he/she would like to specify base stations for which the call number entered is valid. If the user answers no by pressing a corresponding key of the keypad 2, the entered call number is regarded as valid for all the base stations, that is to say in the case of an organization of the numbers memory such as that shown in ~~figure~~ Figure 2A, the number is entered identically

into all the numbers columns 8; ~~in~~. In the case of the organization represented in figure Figure 2B, all the bits of the stations column 10 for the number concerned are set. For a user who does not require the capability of the terminal to activate itself for different base stations, the input of data into the numbers memory

5 therefore does not involve any more effort than in the case of a terminal which does not have this capability.

If the user answers yes, he/she is subsequently requested by the processor 1 to press one or more keys of the keypad 2 which are respectively assigned to a base station, and subsequently thereafter to press a confirmation key, to specify in this
10 way one or more base stations for which the number is valid.

~~It goes without saying that~~ Clearly, the present invention can be used irrespective of the type of base station at which the terminal can be activated. For example, one or more of these base stations may be ones which have been set up by a private operator for his/her own use, for example within a home or company,
15 whereas other base stations at which the terminal ~~can~~ likewise can be activated may belong, for example, to one or even various different public mobile telephone networks.

Indeed, although the present invention has been described with reference to specific embodiments, those of skill in the art will recognize that changes may be
20 made thereto without departing from the spirit and scope of the invention as set forth in the hereafter appended claims.

Abstract

ABSTRACT OF THE DISCLOSURE

Mobile telecommunications terminal

5 ~~In the case a~~ A mobile telecommunications terminal which can be activated
at different base stations, wherein ~~(a, b, c, d)~~ it is possible to store in a numbers
memory, (3) with respect to a call number, ~~(column 8)~~ information ~~(column 10)~~
which indicates ~~in connection with~~ which of the base stations the call number can
be dialed, and ~~display means~~ to display on a display only those names among the
ones assigned to the call numbers which can be dialed in connection with a
10 designated base station. ~~This base station~~ which can be designated manually or
automatically by a data exchange with the base station concerned.

Figure 2

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